

air return means mountable on a first grid opening of a suspended ceiling for receiving pre-filtered air flow therethrough,

air filter means mounted above any suspended ceiling and in fluid communication with said air return means,

blower means mounted above any suspended ceiling and positioned downstream of said air filter means in air tight fluid communication therewith for efficiently pulling air through said air filter means, said blower including, a single inlet backward curved centrifugal fan including a circular inlet and a circular outlet for air tight mating engagement with said flexible duct means,

air supply means mountable downstream of said blower means on a second grid opening of a suspended ceiling remote from a first grid opening thereof for delivering filtered air flow therethrough, and

flexible duct means positioned above any suspended ceiling between said blower means and said air supply means for delivering air tight fluid flow therebetween.

al 20. (Newly Added) A clean air filter and delivery apparatus in combination for mounting on a plurality of grid openings of a suspended ceiling of an enclosed building area independent of any heating, ventilating and air conditioning apparatus therein, said apparatus comprising:

air return means mountable on a first grid opening of a suspended ceiling for receiving pre-filtered air flow therethrough,

air filter means mounted above any suspended ceiling and in fluid communication with said air return means,

blower means mounted above any suspended ceiling and positioned remotely downstream of said air filter means in air tight fluid communication therewith for efficiently pulling air through said air filter means,

air supply means mountable remotely downstream of said blower means on a second grid opening of a suspended ceiling also remote from a first grid opening thereof for delivering filtered air flow therethrough, and

flexible duct means positioned above any suspended ceiling between said return means and said blower means and between said blower means and said air supply means for delivering air tight fluid flow therebetween, said air return means, said air filter means, said blower means and said air supply means being positioned in-line.

Claim Listing

1) Amended to include the limitations of claim 3 including a single inlet backward curved centrifugal fan including a circular inlet and a circular outlet for air tight mating engagement with the flexible duct means.

2) Unchanged.

3) Cancelled.